

**UNCLASSIFIED**

**CLASSIFICATION**

EXHIBIT P-40, BUDGET ITEM JUSTIFICATION						DATE					
APPROPRIATION/BUDGET ACTIVITY OP.N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT						P-1 ITEM NOMENCLATURE BLI 2237 Surveillance Towed Array Sensor (SURTASS)			SUBHEAD 72VG		
			FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TO COMP	TOTAL
QUANTITY											
COST (in millions)			\$19.9	\$15.1	\$7.2	\$3.8	\$0.4	\$1.2	\$1.4	Continuing	Continuing
<b>PROGRAM COVERAGE:</b> Surveillance Towed Array Sensor System (SURTASS) is the mobile, tactical and strategic arm of the Navy's undersea surveillance capability that provides deep ocean and littoral acoustic detection and cueing for tactical weapon platforms against both diesel and nuclear submarines as well as surface vessels in any given Area of Operations worldwide. Dedicated ASW T-AGOS ships tow long acoustic arrays that collect acoustic data and relay that data to shore facilities via SHF satellites for processing and fusion of the resulting contact data with other sensors. Following TPOM 04 there are five T-AGOS ships with two system configurations operating in the Pacific area. Beginning in FY04, ship configurations will consist of the following: (1). Three T-AGOS Small Waterplane Area Twin Hull (SWATH) ships that were SCN funded in FY87 through FY89. This ship class utilizes the Next Evolution Signal Processing and Display System that was developed in 1997 and the Acoustic Rapid COTS Insertion (IUSS) signal processing and display system that was developed in 2002 and is common with the SSN Sonar Processing System. The RDA and A180R arrays provide improved detection and classification capability and allow those ships equipped with it to operate in a bi-static mode with the other active T-AGOS platforms that are equipped with the Low Frequency Active (LFA) system; and, (2). Two Low Frequency Active (LFA) equipped ships including the first "large" SWATH ship, T-AGOS 23 USNS IMPECCABLE, that was delivered in FY01, and the CORY CHOUEST. Both the CORY CHOUEST and T-AGOS 23 are configured with the Next Evolution Processing and Display system and both are equipped with the Low Frequency Active (LFA) capability. The active capability provides greatly improved detection against diesel submarines as well as the quiet nuclear submarine threat. In addition to the five T-AGOS ships above, two shore sites are configured with the Next Evolution processing and display and ARCI suites to receive the T-AGOS acoustic data via SHF satellite communication links. Major upgrades to these platforms and shore sites in FY02 through FY04 include TB-29 Twinline Arrays, Acoustic Rapid COTS Insertion (IUSS) (ARCI) processing and display upgrade that provide improved common ship processing suites for twinline arrays and Communication C4I upgrades that include the new SHF AN/WSC-6(V)7 terminals with seven foot antennas, INMARSAT B and ADNS in FY04. A cost sharing agreement with Japan also provides a shore site and two Japanese SWATH ships with similar capability to the T-AGOS SWATH ships for the Western Pacific region. The Japanese Auxiliary Ocean Surveillance Ship (JAOS) SWATH ships have been upgraded with the Next Evolution computer processing and display suites in FY98 and FY99 and currently utilize the original Production Baseline Arrays. Under the cost sharing agreement, the JAOS ships are being upgraded with the newer twinline A180R passive receiving arrays funded in FY00 and FY01. This budget includes the outfitting of a third J-AOS SWATH ship in FY05 with an ARCI processing and display system and a new Twinline array.											
SURTASS OPN funded subheads include: VG006 which provides for procurement and upgrade of existing arrays with the submarine common, SURTASS version of the TB-29A Twinline Array through FY04, ship ARCI trainers/configuration control modules (CCM) in FY03 and Communication/C4I Refresh upgrades through FY06. VG006 procurements beyond FY04 include ARCI processing and display suite for J-AOS 3 in FY05, refresh technology suites for communications/C4I suites in FY06. VG007 provides for procurement of field change kits resulting from in-service improvements of communications equipment, arrays, processing and display equipment and supporting systems. VG010 provides for procurement of ARCI upgrade of ship and shore site signal processing and display suite electronics in FY03. VG776 provides for non-FMP installation of equipment.											

Exhibit P-40, Budget Item Justification

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<b>EXHIBIT P-40, BUDGET ITEM JUSTIFICATION (Continued)</b>		<b>DATE</b>	<b>February 2004</b>																																																				
APPROPRIATION/BUDGET ACTIVITY OP.N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	P-1 ITEM NOMENCLATURE BLI 2237 Surveillance Towed Array Sensor (SURTASS)	SUBHEAD	72VG																																																				
JUSTIFICATION OF BUDGET YEAR (FY04 & FY05): FY04 - Procurement of two twinline arrays to provide improved and common directional arrays for Indications and Warning (I&W) deepwater strategic and littoral missions. Field Change / Modifications replace aging / unsupportable shipboard equipment. Installation funding provides for installation of applicable equipment being installed in FY04. FY05- JAOS 3 array and processing suite are required for new construction JAOS SURTASS third platform. J-AOS 3 is cost share and funding is required for FY07 IOC. Field Change/Modifications replace aging/unsupported shipboard equipments. Installation funding provides for installation of applicable equipment being installed in FY05. FY04-Procurement of ARCI Processing and display upgrade for JAOS 1 to improve performance and replace obsolescent equipment. FY05- Procurement of ARCI processing and display upgrade for JAOS 2 to improve performance and replace obsolescent equipment.																																																							
INSTALLATION AGENTS: SSC Charleston, SSC San Diego, and General Dynamics, Anaheim Hills, CA.																																																							
MODIFICATION SUMMARY (\$M)																																																							
Listed below are the costs for equipment being procured by BLI 2237 that have associated installation costs budgeted.																																																							
<table><thead><tr><th>EQUIPMENT</th><th>FY03</th><th>FY04</th><th>FY05</th></tr></thead><tbody><tr><td>Block Upgrade (J-AOS 1 &amp; 2)</td><td>0.77</td><td>0.34</td><td>0.31</td></tr><tr><td>J-AOS 3 Array &amp; Processing Suite</td><td>0.00</td><td>0.00</td><td>5.92</td></tr><tr><td>Twinline Arrays</td><td>12.13</td><td>13.27</td><td>0.00</td></tr><tr><td>Trainers/CCM</td><td>2.17</td><td>0.00</td><td>0.00</td></tr><tr><td>Communication/C4I Upgrade</td><td>0.78</td><td>0.39</td><td>0.00</td></tr><tr><td>Communication/C4I Upgrade Refresh Technolo<del>g</del></td><td>0.00</td><td>0.00</td><td>0.00</td></tr><tr><td>Transformational Low Frequency Active</td><td>0.00</td><td>0.00</td><td>0.00</td></tr><tr><td>Field Changes/Modifications</td><td>0.50</td><td>0.68</td><td>0.35</td></tr><tr><td>ARCI Ship Electronics</td><td>0.00</td><td>0.00</td><td>0.00</td></tr><tr><td>ARCI Ship Electronics Refresh Technology</td><td>0.00</td><td>0.00</td><td>0.00</td></tr><tr><td>ARCI Shore Electronics</td><td>1.60</td><td>0.00</td><td>0.00</td></tr><tr><td>ARCI Shore Electronics Refresh Technology</td><td>0.00</td><td>0.00</td><td>0.00</td></tr></tbody></table>				EQUIPMENT	FY03	FY04	FY05	Block Upgrade (J-AOS 1 & 2)	0.77	0.34	0.31	J-AOS 3 Array & Processing Suite	0.00	0.00	5.92	Twinline Arrays	12.13	13.27	0.00	Trainers/CCM	2.17	0.00	0.00	Communication/C4I Upgrade	0.78	0.39	0.00	Communication/C4I Upgrade Refresh Technolo <del>g</del>	0.00	0.00	0.00	Transformational Low Frequency Active	0.00	0.00	0.00	Field Changes/Modifications	0.50	0.68	0.35	ARCI Ship Electronics	0.00	0.00	0.00	ARCI Ship Electronics Refresh Technology	0.00	0.00	0.00	ARCI Shore Electronics	1.60	0.00	0.00	ARCI Shore Electronics Refresh Technology	0.00	0.00	0.00
EQUIPMENT	FY03	FY04	FY05																																																				
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<b>EXHIBIT P-40, BUDGET ITEM JUSTIFICATION (Continued)</b>		<b>DATE</b>	<b>February 2004</b>
<b>APPROPRIATION/BUDGET ACTIVITY</b> OP.N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	<b>P-1 ITEM NOMENCLATURE</b> BLI 2237 Surveillance Towed Array Sensor (SURTASS)	<b>SUBHEAD</b> 72VG	
Specific procurements by FY include:			
FY03: Funds are required for the following: VG006 Twinline array provides two improved and common directional array for Indications and Warning (I&W) deepwater strategic missions and littoral missions. Communications/C4I Upgrade provides two SHF WSC-6(V)7 terminals for network centric connectivity to BG. ARCI trainers at IOSC and SUBTRAFAC provide operation & maintenance training for MILDET and SURTASS ship personnel. ARCI processing and display upgrade for ASWC to support JAOS 1 and JAOS 2. ARCI Configuration Control Model (CCM) provides an ARCI signal processing and display suite at the software support activity VG007 Field Changes/Modifications provide for correction of deficiencies identified by Fleet use, array support equipment, communication equipment, replacement of aging/unsupported equipment. VG010 ARCI processing and display upgrades provide two shore site processing and display suites. VG776 Installation of equipment.			
FY04: Funds are required for the following: VG006 Twinline array provides two improved and common directional arrays for Indications and Warning (I&W) deepwater strategic missions and littoral missions. ARCI Processing and display upgrade for JAOS 1. Communications / C4I upgrades provide for five SHF Bandwidth Efficient Modems and one ADNS. VG007 Field Changes/Modifications provide for correction of deficiencies identified by Fleet use, array support equipment, communication equipment, and replacement of aging/unsupported equipment. VG776 Installation of equipment.			
FY05: Funds are required for the following: VG006 ARCI Processing and display upgrade for JAOS 2. JAOS 3 Array and Processing Suite provides a twinline array and processing suite for new construction JAOS Swath platform VG007 Field Changes/Modifications provide for correction of deficiencies identified by Fleet use, array support equipment, communication equipment, and replacement of aging/unsupported equipment. VG776 Installation of equipment.			

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EXHIBIT P-5, COST ANALYSIS											DATE					
APPROPRIATION ACTIVITY OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT											P-1 ITEM NOMENCLATURE BLI 2237 Surveillance Towed Array Sensor (SURTASS)		SUBHEAD 72VG			
COST CODE	ELEMENT OF COST	ID CODE	TOTAL COST IN THOUSANDS OF DOLLARS													
			PY	FY 2002			FY 2003			FY 2004			FY 2005			
			TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
VG006	UPGRADE PROCUREMENT Block Upgrade/ARCI (ASWC and J-AOS 1 & 2) J-AOS 3 Array & Processing Suite Twinline Arrays Trainers/CCM (Note 1) Communication/C4I Upgrades (Note 2) Communication/C4I Upgrades Refresh Technology LFA Technology Refresh Transformational Low Frequency Active	A					2	385	770	1	344	344	1	306	306	
		A		0	0	0	2	6,065	12,130	2	6,633	13,266	1	5,920	5,920	
		A					3	723	2,169							
		A					0	390	780	5	77	387				
		A					2									
VG007	FIELD CHANGES/MODIFICATIONS	A											679		350	
VG010	ELECTRONICS UPGRADE ARCI Ship Electronics ARCI Ship Electronics Refresh Technology ARCI Shore Electronics ARCI Shore Electronics Refresh Technology	A														
		A		0	0	0	2	797	1,594							
		A														
VG776	INSTALLATION OF EQUIPMENT NON-FMP Ship Installation NON-FMP Shore Installation															
	<b>TOTAL CONTROL</b>						0									
Remarks:	(1) FY03 Trainers/CCM line in VG006 funds ARCI Trainers at SSTF and SUBTRAFAC; and ARCI CCM. Unit cost for trainers are weighted average cost. (2) Communication/C4I Upgrades. FY03: SHF (V)7 Terminals. FY04 provides for 5-ea SHF Bandwidth Efficient Modems and 1-ea ADNS.															

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EXHIBIT P-5a, PROCUREMENT HISTORY AND PLANNING								A. DATE February 2004		
B. APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT				C. P-1 ITEM NOMENCLATURE BLI 2237 Surveillance Towed Array Sensor (SURTASS)					SUBHEAD 72VG	
ELEMENT OF COST	QTY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST Delivery	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<b>FY03</b>										
<b>UPGRADE PROCUREMENT</b>										
Block Upgrade / ARCI (ASWC and J-AOS 1 & 2)	2	385	SPAWAR/NAVSEA		CPAF/OP	General Dynamics-AIS	Jul-03	Jul-04	Yes	n/a
J-AOS 3 Array & Processing Suite										
Twinline Arrays	2	6,065	NAVSEA		CPFF/OP	Lockheed Martin	Dec-02	Dec-04	Yes	n/a
Trainers/CCM	3	723	SPAWAR		CPAF/OP	General Dynamics-AIS	Dec-02	Nov-03	Yes	n/a
Communication/C4I Upgrades	2	390	Various		Various	Various	Various	Various	Yes	n/a
Communication/C4I Upgrades Refresh Technology										
LFA Technology Refresh										
Transformational Low Frequency Active										
<b>FIELD CHANGES/MODIFICATIONS</b>										
<b>ELECTRONICS UPGRADE</b>										
ARCI Ship Electronics										
ARCI Ship Electronics Refresh Technology										
ARCI Shore Electronics	2	797	SPAWAR		CPAF/OP	General Dynamics-AIS	Dec-02	Aug-03	Yes	n/a
ARCI Shore Electronics Refresh Technology										

Exhibit P-5a, Procurement History and Planning  
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EXHIBIT P-5a, PROCUREMENT HISTORY AND PLANNING									A. DATE February 2004	
B. APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT				C. P-1 ITEM NOMENCLATURE BLI 2237 Surveillance Towed Array Sensor (SURTASS)					SUBHEAD 72VG	
ELEMENT OF COST	QTY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST Delivery	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<b>FY04</b>										
<b>UPGRADE PROCUREMENT</b>										
Block Upgrade / ARCI (ASWC and J-AOS 1 & 2)	1	344	SPAWAR		CPAF/OP	General Dynamics-AIS	Sep-04	Sep-05	Yes	n/a
J-AOS 3 Array & Processing Suite										
Twinline Arrays	2	6,633	NAVSEA		CPFF/OP	Lockheed Martin	Jun-04	Jun-06	Yes	n/a
Trainers/CCM										
Communication/C4I Upgrades	5	77	Various		Various	Various	Various	Various	Yes	n/a
Communication/C4I Upgrades Refresh Technology										
LFA Technology Refresh										
Transformational Low Frequency Active										
<b>FIELD CHANGES/MODIFICATIONS</b>										
<b>ELECTRONICS UPGRADE</b>										
ARCI Ship Electronics										
ARCI Ship Electronics Refresh Technology										
ARCI Shore Electronics										
ARCI Shore Electronics Refresh Technology										
Notes:										

Exhibit P-5a, Procurement History and Planning  
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EXHIBIT P-5a, PROCUREMENT HISTORY AND PLANNING								A. DATE		February 2004		
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE BLI 2237					SUBHEAD			
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT				Surveillance Towed Array Sensor (SURTASS)					72VG			
ELEMENT OF COST	QTY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST Delivery	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE		
<b>FY05</b>												
<b>UPGRADE PROCUREMENT</b>												
Block Upgrade / ARCI (ASWC and J-AOS 1 & 2)	1	306	SPAWAR		CPAF/OP	General Dynamics-AIS	Sep-05	Sep-06	Yes	n/a		
J-AOS 3 Array & Processing Suite	1	5,920	SPAWAR		CPAF/OP	General Dynamics-AIS/IOSC	Oct-04	Jul 05 and Aug 06	Yes	n/a		
Twinline Arrays												
Trainers/CCM												
Communication/C4I Upgrades												
Communication/C4I Upgrades Refresh Technology												
LFA Technology Refresh												
Transformational Low Frequency Active												
<b>FIELD CHANGES/MODIFICATIONS</b>												
<b>ELECTRONICS UPGRADE</b>												
ARCI Ship Electronics												
ARCI Ship Electronics Refresh Technology												
ARCI Shore Electronics												
ARCI Shore Electronics Refresh Technology												
Notes:												

Exhibit P-5a, Procurement History and Planning  
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## UNCLASSIFIED

MODIFICATION TITLE: Block Upgrade / ARCI (ASWC and J-AOS 1 &amp; 2)

February 2004

COST CODE: VG006

MODELS OF SYSTEMS AFFECTED: JAOS Shore (ASWC/SES) and JAOS Ship (J-AOS 1 &amp; J-AOS 2)

DESCRIPTION/JUSTIFICATION: J-AOS SURTASS upgrades to ARCI Baseline on a cost share basis is planned so that software is common with US. In FY03 ASWC / SES shore upgrades will be procured. In FY04 and FY05, J-AOS 1 and J-AOS-2 will be procured respectively. FY03 Installation funding installs two A-180R Twinline Arrays on J1 and J2.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: N/A

FINANCIAL PLAN: (\$ in millions)

RDT&E PROCUREMENT:	Prior Yrs		FY 03		FY 04		FY 05		FY06		FY07		FY08		FY09		TC	Total
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
Kit Quantity																	0.000	0.00
Installation Kits																	0.000	0.00
Installation Kits Nonrecurring																	0.000	0.00
Equipment																	5.000	3.46
Equipment Nonrecurring																	0.000	0.00
Engineering Change Orders																	0.000	0.00
Data																	0.000	0.00
Training Equipment																	0.000	0.00
Support Equipment																	0.000	0.00
Other																	0.000	0.00
Interim Contractor Support																	0.000	0.00
Installation of Hardware																	5.000	0.25
PRIOR YR EQUIP																	0.000	0.00
FY 02 EQUIP																	1.000	0.05
FY 03 EQUIP																	2.000	0.10
FY 04 EQUIP																	1.000	0.05
FY 05 EQUIP																	1.000	0.05
FY 06 EQUIP																	0.000	0.00
FY 07 EQUIP																	0.000	0.00
FY 08 EQUIP																	0.000	0.00
FY 09 EQUIP																	0.000	0.00
FY TC EQUIP																	0.000	0.00
TOTAL INSTALLATION COST		0.000	0.000	1.000	0.050	2.000	0.100	1.000	0.050	1.000	0.050	0.000	0.000	0.000	0.000	0.000	5.000	0.25
TOTAL PROCUREMENT COST		1.000	2.035	2.000	0.820	1.000	0.444	1.000	0.356	0.000	0.050	0.000	0.000	0.000	0.000	0.000	5.000	3.71

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 12 Months

CONTRACT DATES:

FY 2002: FY 2003: Jul-03 FY 2004: Sep-04 FY 2005: Sep-05

DELIVERY DATES:

FY 2002: FY 2003: Jul-04 FY 2004: Sep-05 FY 2005: Sep-06

INSTALLATION SCHEDULE:

PY	1	2	FY04	3	4	1	2	FY 05	3	4	1	2	FY 06	3	4	1	2	FY 07	3	4
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INPUT

1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4

5

OUTPUT

1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4

5

INSTALLATION SCHEDULE:

1 2 Fy 08 3 4 1 2 Fy 09 3 4 TC TOTAL

INPUT

5

OUTPUT

5

Notes/Comments

One of the two items procured in FY03 does not require installation funds. The second item will be funded and installed in FY04

P-3a IMP Item No. 40-8 of 40-16

Exhibit P-3a, Individual Modification Program  
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## UNCLASSIFIED

MODIFICATION TITLE: JAOS #3 Array and Processing Suite  
 COST CODE: VG006 February 2004

MODELS OF SYSTEMS AFFECTED: JAOS Ship #3 Processing and Display Suite and Array

DESCRIPTION/JUSTIFICATION: JAOS Ship #3 provides a ship processing and display suite and a Twinline Array in FY05 for a new construction Japanese vessel. Installation will be initiated in FY05 in accordance with shipyard building plans. OPN data is US Cost Share

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

N/A

FINANCIAL PLAN: (\$ in millions)

	Qty	\$	Prior Yrs		FY 03		FY 04		FY 05		FY06		FY07		FY08		FY09		TC		Total	
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																					0.000	0.000
PROCUREMENT:																					0.000	0.000
Kit Quantity																					0.000	0.000
Installation Kits																					0.000	0.000
Installation Kits Nonrecurring																					0.000	0.000
Equipment																					1.000	5.920
Equipment Nonrecurring																					0.000	0.000
Engineering Change Orders																					0.000	0.000
Data																					0.000	0.000
Training Equipment																					0.000	0.000
Support Equipment																					0.000	0.000
Other																					0.000	0.000
Interim Contractor Support																					0.000	0.000
Installation of Hardware																					0.000	0.000
PRIOR YR EQUIP																					1.000	0.270
FY 02 EQUIP																					0.000	0.000
FY 03 EQUIP																					0.000	0.000
FY 04 EQUIP																					0.000	0.000
FY 05 EQUIP																					1.000	0.270
FY 06 EQUIP																					0.000	0.000
FY 07 EQUIP																					0.000	0.000
FY 08 EQUIP																					0.000	0.000
FY 09 EQUIP																					0.000	0.000
FY TC EQUIP																					0.000	0.000
TOTAL INSTALLATION COST			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.270	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.270	
TOTAL PROCUREMENT COST			0.000	0.000	0.000	0.000	0.000	0.000	1.000	5.920	0.000	0.270	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	6.190
METHOD OF IMPLEMENTATION:			ADMINISTRATIVE LEADTIME:								1 mos.								PRODUCTION LEADTIME:			

CONTRACT DATES:

FY 2002: FY 2003: FY2004: FY2005: Oct-04

DELIVERY DATES:

FY 2002: FY 2003: FY2004: FY2005: Jul-05;Aug-06

INSTALLATION SCHEDULE:

PY	1	2	3	4	FY04	1	2	3	4	FY 05	1	2	3	4	FY 06	1	2	3	4	FY 07	1	2	3	4
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INPUT

OUTPUT

INSTALLATION SCHEDULE:

1	2	3	4	FY 08	1	2	3	4	FY 09	TC	TOTAL
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INPUT

OUTPUT

## Notes/Comments

- (1) FY05 Funds required to facilitate electronics suite preparation during array manufacturing timeline. Additional delay due to ship availability.
- (2) The J-AOS 3 System consists of two major subcomponents procured from two separate contractors. Full delivery is defined as both part being simultaneously available. The installation of the JAOS #3 equipment will begin in late FY06 and be completed in 1st Qtr FY07.

Exhibit P-3a, Individual Modification Program  
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MODIFICATION TITLE: Twinline Arrays  
 COST CODE: VG006  
 MODELS OF SYSTEMS AFFECTED: SURTASS T-AGOS Ships  
 DESCRIPTION/JUSTIFICATION: The Twinline is a shallow water variant of the common array that is being produced by NAVSEA. The array consists of 2 short array lengths and is designed for increased surveillance capability in high clutter environments and littoral areas. The inventory objective for the Common Twinline Array is 5 arrays.  
 DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: N/A  
 FINANCIAL PLAN: (\$ in millions)

February 2004

	Prior Yrs		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																			0.000	0.000
PROCUREMENT:																			0.000	0.000
Kit Quantity																			0.000	0.000
Installation Kits																			0.000	0.000
Installation Kits Nonrecurring																			0.000	0.000
Equipment			1.000	7.200	2.000	12.130	2.000	13.266											5.000	32.596
Equipment Nonrecurring																			0.000	0.000
Engineering Change Orders																			0.000	0.000
Data																			0.000	0.000
Training Equipment																			0.000	0.000
Support Equipment																			0.000	0.000
Other																			0.000	0.000
Interim Contractor Support																			0.000	0.000
Installation of Hardware			0.000	0.000	0.000	0.000	0.000	0.000	3.000	0.450	2.000	0.300	0.000	0.000	0.000	0.000	0.000	0.000	5.000	0.750
PRIOR YR EQUIP																			0.000	0.000
FY 02 EQUIP																			1.000	0.150
FY 03 EQUIP																			2.000	0.300
FY 04 EQUIP																			2.000	0.300
FY 05 EQUIP																			0.000	0.000
FY 06 EQUIP																			0.000	0.000
FY 07 EQUIP																			0.000	0.000
FY 08 EQUIP																			0.000	0.000
FY 09 EQUIP																			0.000	0.000
FY TC EQUIP																			0.000	0.000
TOTAL INSTALLATION COST			0.000	0.000	0.000	0.000	0.000	0.000	3.000	0.450	2.000	0.300	0.000	0.000	0.000	0.000	0.000	0.000	5.000	0.750
TOTAL PROCUREMENT COST			1.000	7.200	2.000	12.130	2.000	13.266	0.000	0.450	0.000	0.300	0.000	0.000	0.000	0.000	0.000	0.000	5.000	33.346

## METHOD OF IMPLEMENTATION:

CONTRACT DATES: FY 2002: FY 2003: Dec-02 FY 2004: Jun-04 FY 2005:  
 DELIVERY DATES: FY 2002: FY 2003: Dec-04 FY 2004: Jun-06 FY 2005:

INSTALLATION SCHEDULE:	PY	FY04				FY 05				FY 06				FY 07			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

INPUT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

OUTPUT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

INSTALLATION SCHEDULE:	1	2	FY 08				FY 09				TC		TOTAL			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2

INPUT 5 5

OUTPUT 5 5

Notes/Comments:

## UNCLASSIFIED

MODIFICATION TITLE:  
COST CODE:  
MODELS OF SYSTEMS AFFECTED:  
DESCRIPTION/JUSTIFICATION:

Trainers/Configuration Control Model (CCM)  
VG006

SURTASS Shore Trainers and Configuration Control Model (CCM)

The ARCI trainer suite at IOSC, Norfolk VA., in FY03 will provide operation and maintenance training for MILDET and SURTASS ship personnel. The ARCI SUBTRAFAC Trainer in FY03 will provide operations and maintenance training for SURTASS shore and MILDET personnel. The FY03 ARCI configuration Control Model (CCM) at the SURTASS software developer's lab will provide a hardware suite for software maintenance and test purposes.

February 2004

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

N/A

## FINANCIAL PLAN: (\$ in millions)

	Prior Yrs		FY 03		FY 04		FY 05		FY06		FY07		FY08		FY09		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																			0.000	0.000
PROCUREMENT:																			0.000	0.000
Kit Quantity																			0.000	0.000
Installation Kits																			0.000	0.000
Installation Kits Nonrecurring																			0.000	0.000
Equipment																			0.000	0.000
Equipment Nonrecurring																			0.000	0.000
Engineering Change Orders																			0.000	0.000
Data																			0.000	0.000
Training Equipment																			3.000	2.169
Support Equipment																			0.000	0.000
Other																			0.000	0.000
Interim Contractor Support																			0.000	0.000
Installation of Hardware																			3.000	0.227
PRIOR YR EQUIP																			0.000	0.000
FY 02 EQUIP																			0.000	0.000
FY 03 EQUIP																			3.000	0.227
FY 04 EQUIP																			1.000	0.000
FY 05 EQUIP																			0.000	0.000
FY 06 EQUIP																			0.000	0.000
FY 07 EQUIP																			0.000	0.000
FY 08 EQUIP																			0.000	0.000
FY 09 EQUIP																			0.000	0.000
FY TC EQUIP																			0.000	0.000
TOTAL INSTALLATION COST																			0.000	0.000
TOTAL PROCUREMENT COST																			0.000	0.000

## METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 1 month PRODUCTION LEADTIME: 10 months

## CONTRACT DATES:

FY2002: FY 2003: Dec-02 Jun-03 FY2004: FY2005:

## DELIVERY DATES:

FY2002: FY 2003: Nov-03 Apr-04 FY2004: FY2005:

## INSTALLATION SCHEDULE:

PY	FY04				FY 05				FY 06				FY 07			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

## INPUT

1	1	1
---	---	---

## OUTPUT

1	1	1
---	---	---

## INSTALLATION SCHEDULE:

FY 08				FY 09				TC				TOTAL			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

## INPUT

3

## OUTPUT

3

## Notes/Comments

The reported 2 contract and delivery dates for FY03 are due to exercising 2 separate contract options resulting in 2 separate schedules.

Exhibit P-3a, Individual Modification Program  
Unclassified  
Classification

## UNCLASSIFIED

MODIFICATION TITLE:

Communications/C4I Upgrades

February 2004

COST CODE:

VG006

MODELS OF SYSTEMS AFFECTED:

SURTASS T-AGOS Ships

DESCRIPTION/JUSTIFICATION:

Communication/C4I Upgrades provides IT-21 communications upgrades for SURTASS ships for improved network centric connectivity to deploying Battle Groups. FY 03 provides SHF WSC-6 (V7) terminal, ADNS, and integration of suites. FY04 provides for 5-ea SHF Bandwidth Efficient Modems and 1-ea ADNS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

N/A

FINANCIAL PLAN: (\$ in millions)

	Prior Yrs		FY 03		FY 04		FY 05		FY06		FY07		FY08		FY09		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																			0.000	0.000
PROCUREMENT:																			0.000	0.000
Kit Quantity																			0.000	0.000
Installation Kits																			0.000	0.000
Installation Kits Nonrecurring																			0.000	0.000
Equipment			3.000	2.630	2.000	0.780	5.000	0.387										10.000	3.797	
Equipment Nonrecurring																		0.000	0.000	
Engineering Change Orders																		0.000	0.000	
Data																		0.000	0.000	
Training Equipment																		0.000	0.000	
Support Equipment																		0.000	0.000	
Other																		0.000	0.000	
Interim Contractor Support																		0.000	0.000	
Installation of Hardware			3.000	2.070	2.000	1.100	5.000	0.200										10.000	3.370	
PRIOR YR EQUIP																		0.000	0.000	
FY 02 EQUIP			3.000	2.070	2.000	1.100	5.000	0.200										3.000	2.070	
FY 03 EQUIP																		2.000	1.100	
FY 04 EQUIP																		5.000	0.200	
FY 05 EQUIP																		0.000	0.000	
FY 06 EQUIP																		0.000	0.000	
FY 07 EQUIP																		0.000	0.000	
FY 08 EQUIP																		0.000	0.000	
FY 09 EQUIP																		0.000	0.000	
FY TC EQUIP																		0.000	0.000	
TOTAL INSTALLATION COST			3.000	2.070	2.000	1.100	5.000	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.000	3.370	
TOTAL PROCUREMENT COST			3.000	4.700	2.000	1.880	5.000	0.587	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.000	7.167	

METHOD OF IMPLEMENTATION:

	ADMINISTRATIVE LEADTIME:				PRODUCTION LEADTIME:			
CONTRACT DATES:	FY2002:	Various	FY2003:	Various	FY2004:	Various	FY2005:	FY2006:
DELIVERY DATES:	FY2002:	Various	FY2003:	Various	FY2004:	Various	FY2005:	FY2006:

	PY	1	2	FY04	3	4	1	2	FY 05	3	4	1	2	FY 06	3	4	1	2	FY 07	3	4
INSTALLATION SCHEDULE:																					

INPUT

5

5

OUTPUT

5

5

INSTALLATION SCHEDULE:

1 2 **FY 08** 3 41 2 **FY 09** 3 4

TC

TOTAL

INPUT

10

OUTPUT

10

Notes/Comments

## UNCLASSIFIED

MODIFICATION TITLE: Communications/C4I Upgrade Refresh Technology  
 COST CODE: VG006  
 MODELS OF SYSTEMS AFFECTED: SURTASS TAGOS Ships  
 DESCRIPTION/JUSTIFICATION: Communications/C4I Upgrade Refresh Technology upgrades existing GCCS-M 3.1.1.2 Hardware/Software to GCCS-M 4.0 in FY06.

February 2004

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

N/A

## FINANCIAL PLAN: (\$ in millions)

	Prior Yrs		FY 03		FY 04		FY 05		FY06		FY07		FY08		FY09		TC		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																			0	0.00	
PROCUREMENT:																			0	0.00	
Kit Quantity																			0.000	0.000	
Installation Kits																			0.000	0.000	
Installation Kits Nonrecurring																			0.000	0.000	
Equipment																			5.000	1.072	
Equipment Nonrecurring																			0.000	0.000	
Engineering Change Orders																			0.000	0.000	
Data																			0.000	0.000	
Training Equipment																			0.000	0.000	
Support Equipment																			0.000	0.000	
Other																			0.000	0.000	
Interim Contractor Support																			0.000	0.000	
Installation of Hardware																			0.000	0.000	
PRIOR YR EQUIP																			5.000	0.873	
FY 02 EQUIP																			0.000	0.000	
FY 03 EQUIP																			0.000	0.000	
FY 04 EQUIP																			0.000	0.000	
FY 05 EQUIP																			0.000	0.000	
FY 06 EQUIP																			5.000	0.873	
FY 07 EQUIP																			0.000	0.000	
FY 08 EQUIP																			0.000	0.000	
FY 09 EQUIP																			0.000	0.000	
FY TC EQUIP																			0.000	0.000	
TOTAL INSTALLATION COST		0.000	0.000		0.000	0.000		0.000	0.000		5.000	0.873		0.000	0.000		0.000	0.000	5.000	0.873	
TOTAL PROCUREMENT COST		0.000	0.000		0.000	0.000		0.000	0.000		5.000	1.945		0.000	0.000		0.000	0.000	0.000	5.000	1.945
METHOD OF IMPLEMENTATION:	ADMINISTRATIVE LEADTIME:										2 Months		PRODUCTION LEADTIME:		FY06 GCCS-M -10 Months						

CONTRACT DATES: FY 2002: FY 2003: FY2004: FY2005: FY2006: Oct-05

DELIVERY DATES: FY 2002: FY 2003: FY2004: FY2005: FY2006: Aug-06

INSTALLATION SCHEDULE:	PY	FY04				FY 05				FY 06				FY 07			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

INPUT 5  
OUTPUT 5

INSTALLATION SCHEDULE:	FY 08				FY 09				TC		TOTAL	
	1	2	3	4	1	2	3	4	TC	TOTAL	TC	TOTAL

INPUT 5  
OUTPUT 5

Notes/Comments

P3a IMP Item No. 40-13 of 40-16

Exhibit P-3a, Individual Modification Program  
 Unclassified  
 Classification

## UNCLASSIFIED

MODIFICATION TITLE: Field Changes/Modifications  
COST CODE: VG007  
MODELS OF SYSTEMS AFFECTED: SURTASS T-AGOS Ship and Shore Facilities  
DESCRIPTION/JUSTIFICATION: Field Changes/Modifications for correction of deficiencies identified by Fleet use, array support, communications equipment and replacement of aging/unsupported equipment.

February 2004

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

N/A

## FINANCIAL PLAN: (\$ in millions)

	Prior Yrs		FY 03		FY 04		FY 05		FY06		FY07		FY08		FY09		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																			0	0.00
PROCUREMENT:																			0	0.00
Kit Quantity																			0	0.00
Installation Kits			7.000	0.482	5.000	0.497	5.000	0.679	6.000	0.350	10.000	0.960	2.000	0.340	10.000	0.912	10.000	1.000	55	5.22
Installation Kits Nonrecurring Equipment																			0	0.00
Equipment Nonrecurring																			0	0.00
Engineering Change Orders Data																			0	0.00
Training Equipment																			0	0.00
Support Equipment																			0	0.00
Other																			0	0.00
Interim Contractor Support																			0	0.00
Installation of Hardware			7.000	0.170	5.000	0.360	5.000	0.090	6.000	0.090	10.000	0.300	2.000	0.105	10.000	0.254	10.000	0.380	55	1.75
PRIOR YR EQUIP			7.000	0.170	5.000	0.360	5.000	0.090	6.000	0.090	10.000	0.300	2.000	0.105	10.000	0.254	10.000	0.380	50	0.00
FY 02 EQUIP																			7	0.17
FY 03 EQUIP																			5	0.36
FY 04 EQUIP																			5	0.09
FY 05 EQUIP																			6	0.09
FY 06 EQUIP																			10	0.30
FY 07 EQUIP																			2	0.11
FY 08 EQUIP																			10	0.25
FY 09 EQUIP																			10	0.38
FY TC EQUIP																			0	0.00
TOTAL INSTALLATION COST			7.000	0.170	5.000	0.360	5.000	0.090	6.000	0.090	10.000	0.300	2.000	0.105	10.000	0.254	10.000	0.380	0.00	0.00
TOTAL PROCUREMENT COST			7.000	0.652	5.000	0.857	5.000	0.769	6.000	0.440	10.000	1.260	2.000	0.445	10.000	1.166	10.000	1.380	0.00	0.00
METHOD OF IMPLEMENTATION:																			55	6.97

CONTRACT DATES: FY2002: Various FY 2003: Various FY 2004: Various FY 2005: Various

DELIVERY DATES: FY2002: Various FY 2003: Various FY 2004: Various FY 2005: Various

INSTALLATION SCHEDULE:	PY	FY04				FY 05				FY 06				FY 07			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

INPUT	12																2
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OUTPUT	12																2
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INSTALLATION SCHEDULE:	FY 08				FY 09				TC				TOTAL			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

INPUT																	55
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OUTPUT																	55
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## Notes/Comments

Quantity reflects various field changes

## UNCLASSIFIED

MODIFICATION TITLE: ARCI Ship Electronics  
 COST CODE: VG010  
 MODELS OF SYSTEMS AFFECTED: SURTASS T-AGOS Ships  
 DESCRIPTION/JUSTIFICATION: ARCI Ship Electronics provides upgraded ship processing and display suite consisting of SMP technology server configuration to accommodate improved and expanded twinline data from SURTASS Ships.

February 2004

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

N/A

## FINANCIAL PLAN: (\$ in millions)

	Prior Yrs		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		TC		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																			0.000	0.000	
PROCUREMENT:																			0.000	0.000	
Kit Quantity																			0.000	0.000	
Installation Kits																			0.000	0.000	
Installation Kits Nonrecurring																			0.000	0.000	
Equipment			5.000	3.340															5.000	3.340	
Equipment Nonrecurring																			0.000	0.000	
Engineering Change Orders																			0.000	0.000	
Data																			0.000	0.000	
Training Equipment																			0.000	0.000	
Support Equipment																			0.000	0.000	
Other																			0.000	0.000	
Interim Contractor Support																			0.000	0.000	
Installation of Hardware			5.000	0.420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.000	0.420		
PRIOR YR EQUIP			5.000	0.420															0.000	0.000	
FY 02 EQUIP																			5.000	0.420	
FY 03 EQUIP																			0.000	0.000	
FY 04 EQUIP																			0.000	0.000	
FY 05 EQUIP																			0.000	0.000	
FY 06 EQUIP																			0.000	0.000	
FY 07 EQUIP																			0.000	0.000	
FY 08 EQUIP																			0.000	0.000	
FY 09 EQUIP																			0.000	0.000	
FY TC EQUIP																			0.000	0.000	
TOTAL INSTALLATION COST		5.000	0.420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.000	0.420		
TOTAL PROCUREMENT COST		5.000	3.760	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.000	3.760		
METHOD OF IMPLEMENTATION:	ADMINISTRATIVE LEADTIME:										1 month	PRODUCTION LEADTIME:									

## CONTRACT DATES:

FY2002:

FY2003:

FY2004:

FY2005:

## DELIVERY DATES:

FY2002:

FY2003:

FY2004:

FY2005:

## INSTALLATION SCHEDULE:

PY	1	2	3	4
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	1	2	3	4
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	1	2	3	4
--	---	---	---	---

	1	2	3	4
--	---	---	---	---

INPUT

5

OUTPUT

5

## INSTALLATION SCHEDULE:

	1	2	3	4
--	---	---	---	---

	1	2	3	4
--	---	---	---	---

TC

TOTAL

5

5

Notes/Comments

## UNCLASSIFIED

MODIFICATION TITLE: ARCI Shore Electronics  
 COST CODE: VG010  
 MODELS OF SYSTEMS AFFECTED:  
 DESCRIPTION/JUSTIFICATION: ARCI Shore Electronics provides SURTASS Signal Processing and Display Suites at two Naval Oceanographic Processing Facilities (NOPF).

February 2004

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

N/A

## FINANCIAL PLAN: (\$ in millions)

	Prior Yrs		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		TC		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty
RDT&E																				0.000	0.000
PROCUREMENT:																				0.000	0.000
Kit Quantity																				0.000	0.000
Installation Kits																				0.000	0.000
Installation Kits Nonrecurring																				0.000	0.000
Equipment							2.000	1.594												2.000	1.594
Equipment Nonrecurring																				0.000	0.000
Engineering Change Orders																				0.000	0.000
Data																				0.000	0.000
Training Equipment																				0.000	0.000
Support Equipment																				0.000	0.000
Other																				0.000	0.000
Interim Contractor Support																				0.000	0.000
Installation of Hardware							0.000	0.000	2.000	0.156	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.156
PRIOR YR EQUIP																				0.000	0.000
FY 02 EQUIP																				0.000	0.000
FY 03 EQUIP									2.000	0.156										2.000	0.156
FY 04 EQUIP																				0.000	0.000
FY 05 EQUIP																				0.000	0.000
FY 06 EQUIP																				0.000	0.000
FY 07 EQUIP																				0.000	0.000
FY 08 EQUIP																				0.000	0.000
FY 09 EQUIP																				0.000	0.000
FY TC EQUIP																				0.000	0.000
TOTAL INSTALLATION COST			0.000	0.000	2.000	0.156	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.156	
TOTAL PROCUREMENT COST			0.000	0.000	2.000	1.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	1.750	

## METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 1 month PRODUCTION LEADTIME: 9 months

## CONTRACT DATES:

FY2002: FY2003: Dec. 02 FY2004: FY2005:

## DELIVERY DATES:

FY2002: FY2003: Aug. 03 FY2004: FY2005:

## INSTALLATION SCHEDULE:

PY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
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## INPUT

2

## OUTPUT

1 1

## INSTALLATION SCHEDULE:

1	2	FY 08	3	4	1	2	FY 09	3	4	TC	TOTAL
---	---	-------	---	---	---	---	-------	---	---	----	-------

## INPUT

2

## OUTPUT

2

## Notes/Comments